



November 10, 2016

MEMO TO: Prospective Bidders

SUBJECT: **Addendum No. 3**
City of Asheville Project 298 PR-16-17-001:
Beaucatcher Mountain Greenway Trail

1. Clarification of apparent winning bidder at Bid Opening

The apparent winning bidder will be announced at the bid opening and will be based on the sum of the base bid plus all bid alternates.

2. Clarification of Retaining walls specs

The specifications laid out in the project manual will override notes in the plan set with respect to retaining walls. Walls do not have to be on the NCDOT approved product list. However, the retaining wall system that the contractor selects should meet the requirements laid out on the details sheets and in the project manual.

Replace sheet 2D with attached revised sheet 2D.

3. Mechanically Stabilized Earth (MSE) Retaining Wall Item No. 02844-1

This line item has been left at zero (0) because of the multitude of retaining wall systems available. MSE walls will most likely be used in some capacity on this project but will have to be determined by the wall manufacturer when the contractor submits shop drawings. The bid is asking for a unit price for an MSE wall system to be entered into the bid sheets so when that quantity is determined by the shop drawings submitted by the wall manufacturer, the contractor will be able to be compensated for the additional materials associated with an MSE wall. At that point the quantity of the MSE wall will be subtracted from the quantity of the precast block gravity wall as the MSE wall square footage will replace the precast block square footage. See page 01025-1 and 02844-1 of the specs for more details.

4. Bid Line Items with Quantities of Zero (0)

Because of the structure of this project with multiple add alternates, there are several quantities that have a zero (0) value depending on which section of trail the add alternate contains. The City is asking that the contractor fill in a unit cost for each line item, even if the quantity is zero and that the resulting total for that line item for that add alternate be \$0.00, this also include the base bid. The reasoning is that once the City receives bids and selects a contractor and which add alternates to build, that the bid sheets would be combined to include the base bid and whichever add alternates into one contract. At that point any remaining line items with a quantity of zero, with the exception of the MSE retaining wall (Item No. 02844-1, see above bullet #3), would be removed from the contract.

5. Updated Existing CAD file

We have received a request for existing 3D contours and have updated the folder with a new file that may be downloaded directly here - <https://stewart-eng.sharefile.com/d-sdf5c51bcb0f4610b>

MECHANICALLY STABILIZED EARTH (MSE) NOTES:

FOR MECHANICALLY STABILIZED EARTH (MSE) RETAINING WALLS, SEE MECHANICALLY STABILIZED EARTH RETAINING WALLS PROVISION.

~~USE AN MSE WALL SYSTEM WITH SEGMENTAL RETAINING WALL UNITS (SRW) UNITS THAT MEET ARTICLE 1040.4 OF THE 2012 NCDOT STANDARD SPECIFICATIONS.~~

~~WHEN USING AN MSE WALL SYSTEM WITH SRW UNITS, FREEZE-THAW DURABLE SRW UNITS THAT MEET ARTICLE 1040.4 OF THE NCDOT STANDARD SPECIFICATIONS ARE REQUIRED.~~

BEFORE BEGINNING MSE WALL DESIGN FOR RETAINING WALLS, SURVEY WALL LOCATION AND SUBMIT A REVISED WALL PROFILE VIEW (WALL ENVELOPE) FOR REVIEW. DO NOT START WALL DESIGN OR CONSTRUCTION UNTIL THE REVISED WALL ENVELOPE IS ACCEPTED.

DESIGN RETAINING WALL NO. FOR THE FOLLOWING:

- 1) H = DESIGN HEIGHT + EMBEDMENT
- 2) DESIGN LIFE = 100 YEARS
- 3) MAXIMUM FACTORED VERTICAL PRESSURE ON FOUNDATION MATERIAL = 2500 LB/SF
- 4) MINIMUM REINFORCEMENT LENGTH SHALL BE DETERMINED BY WALL DESIGNER. REINFORCEMENT SHOULD NOT ENCROACH UNDER EXISTING ROADWAYS.
- 5) MINIMUM EMBEDMENT = 2.0 FT
- 6) PROVIDE A 4' BENCH AT THE BASE OF THE WALL 6:1 OR FLATTER, OR PROVIDE ADDITIONAL EMBEDMENT EQUAL TO A DEPTH THAT WILL PROVIDE A THEORETICAL 4' BENCH SHOULD UPPER MATERIAL BE REMVOED.
- 7) REINFORCED ZONE AGGREGATE PARAMETERS:

AGGREGATE TYPE*	UNIT WEIGHT (γ) LB/CF	FRICTION ANGLE (ϕ) DEGREES	COHESION (c) LB/SF
COARSE	110	38	0
FINE	115	34	0
*SEE MSE RETAINING WALLS PROVISION FOR COARSE AND FINE AGGREGATE MATERIAL REQUIREMENTS.			

8) IN-SITU ASSUMED MATERIAL PARAMETERS:

MATERIAL TYPE	UNIT WEIGHT (γ) LB/CF	FRICTION ANGLE (ϕ) DEGREES	COHESION (c) LB/SF
BACKFILL	130	32	0
FOUNDATION	125	28	0

DESIGN RETAINING WALLS WITHIN 10' OF EDGE OF ROADWAYS FOR A LIVE LOAD (TRAFFIC) SURCHARGE.

FOUNDATIONS FOR SIGNS OR LIGHTING MAY BE LOCATED BEHIND RETAINING WALLS AND MAY INTERFERE WITH REINFORCEMENT. BEFORE BEGINNING MSE WALL CONSTRUCTION, SUBMIT PROPOSED CONSTRUCTION METHODS FOR THESE FOUNDATIONS FOR APPROVAL.

EXISTING OR FUTURE OBSTRUCTIONS SUCH AS FOUNDATIONS, GUARDRAIL, FENCE OR HANDRAIL POSTS, PAVEMENTS, PIPES, INLETS OR UTILITIES MAY INTERFERE WITH REINFORCEMENT FOR RETAINING WALLS.

DO NOT PLACE LEVELING PAD CONCRETE, AGGREGATE OR REINFORCEMENT FOR RETAINING WALLS UNTIL EXCAVATION DIMENSIONS AND FOUNDATION MATERIAL ARE APPROVED.

"TEMPORARY SHORING" MAY BE REQUIRED FOR RETAINING WALLS. TEMPORARY SHORING SHALL BE IN ACCORDANCE WITH THE TEMPORARY SHORING PROVISION, AND THE MSE RETAINING WALLS PROVISION FOR TEMPORARY SHORING FOR WALL CONSTRUCTION. TEMPORARY SHORING IS CONSIDERED INCIDENTAL TO THE WALL CONSTRUCTION, NO SEPARATE PAYMENT WILL BE MADE FOR TEMPORARY SHORING.

WALL DESIGNER IS RESPONSIBLE FOR BOTH LOCAL AND GLOBAL STABILITY OF THE RETAINING WALL.

ESTIMATED FILL WALL QUANTITIES (SF)				
-L8REV3-	GRAVITY/MSE WALL NO.	1	325	SF
-L8REV3-	GRAVITY/MSE WALL NO.	3	362	SF
-L8REV3-	GRAVITY/MSE WALL NO.	4A	675	SF
-L8REV3-	GRAVITY/MSE WALL NO.	4	2222	SF
-L9-	GRAVITY/MSE WALL NO.	5	1024	SF
-L3_REV-	GRAVITY/MSE WALL NO.	6A	1189	SF
-L5-	OMITTED	12	OMITTED	
-L6-	GRAVITY/MSE WALL NO.	13	2330	SF
-L7C-	GRAVITY/MSE WALL NO.	16	1003	SF
-L1MOD-	GRAVITY/MSE WALL NO.	17	1656	SF
-L2A-	OMITTED	22	OMITTED	
-L2A-	OMITTED	23	OMITTED	
-HBL-	GRAVITY/MSE WALL NO.	25	307	SF
-HBU-	GRAVITY/MSE WALL NO.	27	205	SF

ESTIMATED CUT WALL QUANTITIES (SF)				
-L8REV3-	GRAVITY/MSE WALL NO.	2	756	SF
-L3_REV-	OMITTED	6	OMITTED	
-L3_REV-	GRAVITY/MSE WALL NO.	7	2072	SF
-L3_REV-	GRAVITY/MSE WALL NO.	8	397	SF
-L9-	OMITTED	9	OMITTED	
-L3_REV-	OMITTED	9A	OMITTED	
-L4ALT2-	GRAVITY/MSE WALL NO.	10	4545	SF
-L5REV-	OMITTED	11	OMITTED	
-L7A-	GRAVITY/MSE WALL NO.	14	299	SF
-L7A-	GRAVITY/MSE WALL NO.	15	342	SF
-L7A-	GRAVITY/MSE WALL NO.	15A	2057	SF
-L1REV-	GRAVITY/MSE WALL NO.	20	319	SF
-L2A-	GRAVITY/MSE WALL NO.	21	2911	SF
-HBL-	GRAVITY/MSE WALL NO.	24	1525	SF
-HBU-	GRAVITY/MSE WALL NO.	26	394	SF



BEAUCATCHER GREENWAY
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TO
HELEN'S BRIDGE

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ROBERT A. WILLIAMS
11/8/16

HYDRAULICS ENGINEER:

PROJECT NO.:

H13002.00

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